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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/743,241	12/22/2003	Gregory Allen O'Neil	RD-28,640-5	6967
75	90 11/08/2004		EXAMINER	
General Electric Company CRD Patent Docket Rm 4A59 Bldg. K1 P.O. Box 8 Schenectady, NY 12301			ZALUKAEVA, TATYANA	
			ART UNIT	PAPER NUMBER
			1713 DATE MAILED: 11/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summany	10/743,241	O'NEIL ET AL.	1
Office Action Summary	Examiner	Art Unit	
The MAIL DIO DATE CHE	Tatyana Zalukaeva	1713	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ac	ddress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this c	ly. ommunication.
Status			•
 Responsive to communication(s) filed on <u>01 Section</u> This action is FINAL. Since this application is in condition for allower closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro		e merits is
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,		
4) ☐ Claim(s) 22,23,36 and 37 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 22,23,36 and 37 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
9) The specification is objected to by the Examine	·		
10) The drawing(s) filed on is/are: a) acce		vaminer	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correcti			R 1.121(d).
11)☐ The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	n No d in this National s	Stage
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary (I		
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e	-152)

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2.

cancelled.

DETAILED ACTION

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1. In the Amendment September 1, 2004 all claims directed top a process have been cancelled, and claims directed to a molded article are left pending. The claims 22, 23, 36 and 37 are directed to a product-by-process.

Double Patenting

Claims 22, 23, 36 and 37 stand provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 22, 23, 36 and 37 of copending Application No. 10/000,913. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented. In their response filed September 1, 2004, Applicants state that since claims 1-21 and 24-35 are cancelled, the double patenting rejection is improper, "since there is no overlap in the claim sets of the two cases". This is not found persuasive, because the claims 22, 23, 36 and 37 currently pending in the instant application do overlap with the claims 22, 23, 36 and 37 of copending Application 10/000,913 in which the claims 22,23, 36 and 37, although have been withdrawn from consideration, have never been

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application

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by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 22, 23, 36 and 37 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over McCloskey (U.S.

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6,518,391) or under 35 U.S.C. 102(a) or 102(e) as being anticipated by or in the alternative as obvious over Chatterjee et al (U.S. 6,143,859).

McCloskey discloses a polymer obtained by solid state polymerization of partially crystalline polycarbonate oligomers bearing ester-substituted terminal groups, which occurs at useful reaction rates despite their high level of endcapping. Partially crystalline polycarbonate oligomers having ester substituted terminal groups may be obtained in a single step by reaction of an ester substituted diaryl carbonate such as bis-methyl salicyl carbonate with a dihydroxy aromatic compound such as bisphenol A in the presence of a transesterification catalyst such as sodium hydroxide (abstract). The partially crystalline precursor polycarbonates are well suited to solid state polymerization n owing to their level of crystallinity and their incorporation of estersubstituted phenoxy endgroups which are more reactive in chain growth reactions with hydroxy endgroups than are unsubstituted phenoxy endgroups. Unsubstituted phenoxy endgroups are present in partially crystalline precursor polycarbonates derived from dihydroxy aromatic compounds and diaryl carbonates lacking ester substitution. such as diphenyl carbonate (col.3, lines 4-10, especially line 25). The bisphenol A polycarbonate is endcapped with methyl salicylate (col.5, lines 20-35). The solid state polymerization is performed at 120-280°C (col.7, lines 1-12), wherein partially crystalline polycarbonate comprising end groups (as discussed above) is heated with the dihydroxyaromatic compound presented by the structure II in col. 7 (see also lines 13-17 of col.7). The residence time of a solid state polymerization is 0.1-6 hours (col.6,

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lines 21,22, col.9, lines 10-25, see also Examples 1-9 for the order of operations in the solid state polymerization procedure.). Table 1 of col.13 crystalliune methyl salicylate endcapped oligomers with specific degree of crystallinity.

Chatterjee discloses copolycarbonates containing such structural units as birefringence-reducing or "soft block" units that are prepared by conducting a reaction, such as melt polymerization or equilibration, between a precursor polycarbonate and a monomer, polycarbonate oligomer or high molecular weight polycarbonate which is a source of other structural units. The crystallinity of the resulting precursor copolycarbonate or one of the reagents employed in its preparation is enhanced, and the precursor copolycarbonate is subjected to solid state polymerization (abstract). Component (B) is defined in col.3, lines 15-25 and fits the definition of claim 1. Component (A) is a precursor polycarbonate. Endcapped polycarbonate A is described in col. 2, lines 41-50

Because of the nature of product-by process claims, the Examiner cannot ordinarily focus on the precise difference between the claimed product and the disclosed product. It is then Applicants' burden to prove that an unobvious difference exists. See *In re Marosi*, 218 USPQ 289, 292-293 (CAFC 1983).

See also footnote 11 O.G. Notice 1162 59-61, wherein a 35 USC 102/103 rejection is authorized in the case of product-by-process claims because the exact identity of the claimed product or the prior art product cannot be determined by the Examiner.

In re Thorpe, 227 USPQ 964 (CAFC 1985) the Examiner rejected product-by-process claims over a product, which although prepared in a different manner, appeared to be

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the same (prima facie) as the claimed product. In the instant case both the polymer and the process of its making are substantially the same in both references as in the instant claims, and therefore, the polymer is fully capable of being molded into molded article.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tatyana Zalukaeva whose telephone number is (571) 272-1115. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 1/04

Tatyana Zalukaeva Primary Examiner Art Unit 1713